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   Salim, Robin; Rao, G. S. V. Radha Krishna;
   TENCON 2006. 2006 IEEE Region 10 Conference
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   Digital Object Identifier 10.1109/TENCON.2006.343902

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2. A neural network application for attack detection in computer networks
   de Sa Silva, L.; Ferrari dos Santos, A.C.; da Silva, J.D.S.; Montes, A.;
   Neural Networks, 2004. Proceedings. 2004 IEEE International Joint Conference on
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   Digital Object Identifier 10.1109/IJCNN.2004.1380190

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3. A model of conversation exchange dynamics for detection of epidemic-style network attac
   Mylavarapu, S.; Zachary, J.; Ettlich, D.; McEachen, J.; Ford, D.;
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4. Detecting and Avoiding Wormhole Attacks in Optimized Link State Routing Protocol
   Farid Nait-Abdesselam; Brahim Bensaou; Jinkyu Yoo;
   Wireless Communications and Networking Conference, 2007.WCNC 2007. IEEE
   11-15 March 2007 Page(s):3117 - 3122
   Digital Object Identifier 10.1109/WCNC.2007.576

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5.
   A Statistical Analysis of Attack Data to Separate Attacks
   Cukier, M.; Berthier, R.; Panjwani, S.; Tan, S.;

Dependable Systems and Networks, 2006. DSN 2006. International Conference on
2006 Page(s):383 - 392
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6.   An experimental evaluation to determine if port scans are precursors to an attack
Panjwani, S.; Tan, S.; Jarrin, K.M.; Cukier, M.;
Dependable Systems and Networks, 2005. DSN 2005. Proceedings. International Conference on
28 June-1 July 2005 Page(s):602 - 611
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7.   Flexible Flow Aggregation for Adaptive Network Monitoring
Dressler, F.; Munz, G.;
Local Computer Networks, Proceedings 2006 31st IEEE Conference on
14-16 Nov. 2006 Page(s):702 - 709
Digital Object Identifier 10.1109/LCN.2006.322180

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8.   Hybrid Hierarchical Network Intrusion Detection
Hong-Yu Yang; Li-Xia Xie;
Machine Learning and Cybernetics, 2006 International Conference on
Aug. 2006 Page(s):2702 - 2706
Digital Object Identifier 10.1109/ICMLC.2006.258929

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9.   Architecture for a hardware-based, TCP/IP content-processing system
Schuehler, D.V.; Moscola, J.; Lockwood, J.W.;
Micro, IEEE
Volume 24, Issue 1, Jan.-Feb. 2004 Page(s):62 - 69
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10. An active detecting method against SYN flooding attack
Bin Xiao; Wei Chen; Yanxiang He; Sha, E.H.-M.;
Parallel and Distributed Systems, 2005. Proceedings. 11th International Conference on
Volume 1, 20-22 July 2005 Page(s):709 - 715 Vol. 1
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11. Fast Algorithms for Heavy Distinct Hitters using Associative Memories
Bandi, Nagender; Agrawal, Divyakant; El Abbadi, Amr;
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25-27 June 2007 Page(s):6 - 6
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12. Using Probing Packets to Recover the Incomplete IP Traceback
Yu-Kuo Tseng; Wen-Shyong Hsieh; Wen-Yen Chou; Kuan-Yen Yang; Yu-Tsung Tsia; Ming-Chen
Intelligent Signal Processing and Communications, 2006. ISPACS '06. International Symposium o
12-15 Dec. 2006 Page(s):776 - 779
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13. Scalable pattern matching for high speed networks
Clark, C.R.; Schimmel, D.E.;
Field-Programmable Custom Computing Machines, 2004. FCCM 2004. 12th Annual IEEE Sympo
20-23 April 2004 Page(s):249 - 257
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14. An information assurance architecture for army installations
Hendy, T.; Troester, D.;
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15. Detection of Port and Network Scan Using Time Independent Feature Set
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16. MAFIC: adaptive packet dropping for cutting malicious flows to push back DDoS attacks
Chen, Y.; Kwok, Y.-K.; Hwang, K.;
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17. Honeypot and scan detection in intrusion detection system
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Hyogon Kim; Inhye Kang; Saewoong Bahk;
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Volume 18, Issue 5, Sept.-Oct. 2004 Page(s):30 - 39
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Ni Zhang; BinXing Fang; Li Guo; Yu Jiang;
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21. A DoS Resilient Flow-level Intrusion Detection Approach for High-speed Networks
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24. Active traffic analysis attacks and countermeasures
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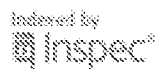Digital Object Identifier 10.1109/MILCOM.2007.4454922

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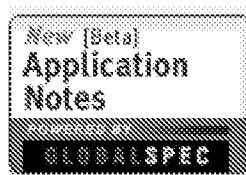
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IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
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26. Fates: A Granular Approach to Real-Time Anomaly Detection
Janies, Jeff; Huang, Chin-Tser;
Computer Communications and Networks, 2007. ICCCN 2007. Proceedings of 16th International
13-16 Aug. 2007 Page(s):605 - 610
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27. PID: A Queue Management Scheme for Improving Network Resilience Under Worm Attacks
Jintao Xiong;
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Bitmap Algorithms for Counting Active Flows on High-Speed Links
Estan, C.; Varghese, G.; Fisk, M.;

Networking, IEEE/ACM Transactions on
Volume 14, Issue 5, Oct. 2006 Page(s):925 - 937
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31. CTCP: a transparent centralized TCP/IP architecture for network security
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Computer Security Applications Conference, 2004. 20th Annual
6-10 Dec. 2004 Page(s):335 - 344
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Jung-Sik Sung; eok-Min Kang; Youngseok Lee; Taeck-Geun Kwon; Bong-Tae Kim;
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33. On the effectiveness of Martian address filtering and its extensions
Hyogon Kim; Inhye Kang;
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Volume 3, 1-5 Dec. 2003 Page(s):1348 - 1352 vol.3
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34. Architecture for a hardware based, TCP/IP content scanning system [intrusion detection sy
Schuehler, D.V.; Moscola, J.; Lockwood, J.;
High Performance Interconnects, 2003. Proceedings. 11th Symposium on
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35. Implementation results of bloom filters for string matching
Attig, M.; Dharmapurikar, S.; Lockwood, J.;
Field-Programmable Custom Computing Machines, 2004. FCCM 2004. 12th Annual IEEE Sympo
20-23 April 2004 Page(s):322 - 323
Digital Object Identifier 10.1109/FCCM.2004.41

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36. A hardware-accelerated system for real-time worm detection
Madhusudan, B.; Lockwood, J.W.;
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Volume 25, Issue 1, Jan.-Feb. 2005 Page(s):60 - 69
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37. DEEJAM: Defeating Energy-Efficient Jamming in IEEE 802.15.4-based Wireless Networks
Wood, Anthony D.; Stankovic, John A.; Zhou, Gang;
Sensor, Mesh and Ad Hoc Communications and Networks, 2007. SECON '07. 4th Annual IEEE C
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Dharmapurikar, S.; Lockwood, J.W.;
Selected Areas in Communications, IEEE Journal on
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Digital Object Identifier 10.1109/JSAC.2006.877131

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39. A multiprocessor architecture for passive analysis of network traffic focusing on complex
Ferro, A.; Delgado, I.; Munoz, A.; Liberal, F.;
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Volume 1, 16-20 May 2005 Page(s):352 - 356 Vol. 1
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1　Towards improving packet probing techniques

Matthew J. Luckie, Anthony J. McGregor, Hans-Werner Braun
November 2001 | MW '01: Proceedings of the 1st ACM SIGCOMM Workshop on
　　　　　　Internet Measurement
Publisher: ACM

Full text available: 📄 pdf(1.04 MB)　Additional Information: full citation, abstract, references, cited by, index terms

　　Packet probing is an important Internet measurement technique, supporting
　　the investigation of packet delay, path, and loss. Current packet probing
　　techniques use Internet Protocols such as the Internet Control Message
　　Protocol (ICMP), the User Datagram ...

　　Keywords: network path, packet delay, packet probing techniques

2　Topology discovery for public IPv6 networks

Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao
July 2003 ACM SIGCOMM Computer Communication Review,　Volume 33 Issue
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Publisher: ACM

Full text available: 📄 pdf(182.34 KB)　Additional Information: full citation, abstract, references, index terms

　　In just three decades the Internet has grown from a small experimental
　　research network into a complex network of routers, switches, and hosts.
　　Understanding the topology of such large scale networks is essential to the
　　procurement of good architectural ...

　　Keywords: IPv6, IPv6 network topology discovery, network measurement,
　　network probing, topology inference

3　Secure data transmission in mobile ad hoc networks

Panagiotis Papadimitratos, Zygmunt J. Haas
September 2003 WiSe '03: Proceedings of the 2nd ACM workshop on Wireless
　　　　　　security
Publisher: ACM

Additional Information: full citation, abstract, references,

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The vision of nomadic computing with its ubiquitous access has stimulated much interest in the Mobile Ad Hoc Networking (MANET) technology. However, its proliferation strongly depends on the availability of security provisions, among other factors. In ...

Keywords: MANET security, multi-path routing, secure message transmission, secure routing, secure routing protocol

4   Congestion control for high bandwidth-delay product networks
Dina Katabi, Mark Handley, Charlie Rohrs
October 2002 ACM SIGCOMM Computer Communication Review, Volume 32 Issue 4
Publisher: ACM

Full text available: 📄 pdf(543.64 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Theory and experiments show that as the per-flow product of bandwidth and latency increases, TCP becomes inefficient and prone to instability, regardless of the queuing scheme. This failing becomes increasingly important as the Internet evolves to incorporate ...

Keywords: congestion control, high-speed networks, large bandwidth-delay product

5   Learning attack strategies from intrusion alerts
Peng Ning, Dingbang Xu
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM

Full text available: 📄 pdf(248.17 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Understanding strategies of attacks is crucial for security applications such as computer and network forensics, intrusion response, and prevention of future attacks. This paper presents techniques to automatically learn attack strategies from correlated ...

Keywords: alert correlation, intrusion detection, profiling attack strategies

6   A high-level programming environment for packet trace anonymization and transformation
Ruoming Pang, Vern Paxson
August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: 📄 pdf(251.27 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Packet traces of operational Internet traffic are invaluable to network research, but public sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet ...

Keywords: anonymization, internet, measurement, network intrusion
detection, packet trace, privacy, transformation

7   Simulating realistic network worm traffic for worm warning system design
    and testing
    Michael Liljenstam, David M. Nicol, Vincent H. Berk, Robert S. Gray
    October 2003 WORM '03: Proceedings of the 2003 ACM workshop on Rapid
                  malcode
    Publisher: ACM

    Full text available: pdf(308.41 KB)   Additional Information: full citation, abstract, references,
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    Reproducing the effects of large-scale worm attacks in a laboratory setup in
    a realistic and reproducible manner is an important issue for the
    development of worm detection and defense systems. In this paper, we
    describe a worm simulation model we are ...

    Keywords: code red, network modeling and simulation, network security,
    slammer, worm detection systems, worms

8   Security problems in 802.11-based networks
    Russ Housley, William Arbaugh
    May 2003 Communications of the ACM,   Volume 46 Issue 5
    Publisher: ACM

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    Full text available: pdf(90.15 KB) html(20.14 KB)   references, cited
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    Assessing inherent wireless network security deficiencies and seeking
    solutions.

9   Constructing attack scenarios through correlation of intrusion alerts
    Peng Ning, Yun Cui, Douglas S. Reeves
    November 2002 CCS '02: Proceedings of the 9th ACM conference on Computer
                  and communications security
    Publisher: ACM

    Full text available: pdf(184.18 KB)   Additional Information: full citation, abstract, references,
                                                                     cited by, index terms

    Traditional intrusion detection systems (IDSs) focus on low-level attacks or
    anomalies, and raise alerts independently, though there may be logical
    connections between them. In situations where there are intensive
    intrusions, not only will actual alerts ...

    Keywords: alert correlation, attack scenarios, intrusion detection

10 Congestion control for high bandwidth-delay product networks
    Dina Katabi, Mark Handley, Charlie Rohrs
    August 2002 SIGCOMM '02: Proceedings of the 2002 conference on
                  Applications, technologies, architectures, and protocols for

computer communications
Publisher: ACM

Full text available: pdf(543.64 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Theory and experiments show that as the per-flow product of bandwidth and latency increases, TCP becomes inefficient and prone to instability, regardless of the queuing scheme. This failing becomes increasingly important as the Internet evolves to incorporate ...

Keywords: congestion control, high-speed networks, large bandwidth-delay product

11 Designing a Safe Network Using Firewalls
Paul Wouters
August 1997 Linux Journal, Volume 1997 Issue 40es
Publisher: Specialized Systems Consultants, Inc.

Full text available: html(26.47 KB)   Additional Information: full citation, abstract, cited by, index terms

It is by no means necessary to purchasse specialized firewall hardware or even software. A Linux server--running on a $400 386 PC-- provides as much protection as most commercial firewalls, with much greater flexibility and eas

12 A process control approach to cyber attack detection
August 2001 Communications of the ACM, Volume 44 Issue 8
Publisher: ACM

Additional Information: full citation, references, cited by, index terms, review

Full text available: pdf(113.70 KB) html(33.65 KB)

13 Automatically inferring patterns of resource consumption in network traffic
Cristian Estan, Stefan Savage, George Varghese
August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(260.43 KB)   Additional Information: full citation, abstract, references, cited by, index terms

The Internet service model emphasizes flexibility -- any node can send any type of traffic at any time. While this design has allowed new applications and usage models to flourish, it also makes the job of network management significantly more challenging. ...

Keywords: data mining, network monitoring, traffic measurement

14

Enhancing byte-level network intrusion detection signatures with context
Robin Sommer, Vern Paxson
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer
　　　　　　　and communications security
Publisher: ACM

Full text available: pdf(217.88 KB)　Additional Information: full citation, abstract, references,
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Many network intrusion detection systems (NIDS) use byte sequences as
signatures to detect malicious activity. While being highly efficient, they tend
to suffer from a high false-positive rate. We develop the concept of
contextual signatures as ...

Keywords: bro, evaluation, network intrusion detection, pattern matching,
security, signatures, snort

15　A distributed monitoring mechanism for wireless sensor networks
Chih-fan Hsin, Mingyan Liu
September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless
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Publisher: ACM

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In this paper we focus on a large class of wireless sensor networks that are
designed and used for monitoring and surveillance. The single most
important mechanism underlying such systems is the monitoring of the
network itself, that is, the control ...

Keywords: monitor and surveillance, security, system design, wireless
sensor networks

16　Reliable network connections
Victor C. Zandy, Barton P. Miller
September 2002 MobiCom '02: Proceedings of the 8th annual international
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Publisher: ACM

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We present two systems, reliable sockets (rocks) and reliable packets
(racks), that provide transparent network connection mobility using only
user- level mechanisms. Each system can detect a connection failure within
seconds of its occurrence, preserve ...

Keywords: network connection mobility

17　Bench-style network research in an Internet Instance Laboratory
Paul Barford, Larry Landweber
July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue
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Publisher: ACM

Full text available: pdf(567.36 KB)　Additional Information: full citation, abstract, references,
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Network researchers employ a variety of experimental methods and tools including analytic modeling techniques, simulators, and widely depolyed measurement infrastructures. It is natural to assume that the overall scope of network research may be limited ...

18 Minimum-energy broadcast in all-wireless networks: NP-completeness and distribution issues
Mario Čagalj, Jean-Pierre Hubaux, Christian Enz
September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking
Publisher: ACM
Full text available: pdf(315.03 KB) Additional Information: full citation, abstract, references, cited by, index terms

In all-wireless networks a crucial problem is to minimize energy consumption, as in most cases the nodes are battery-operated. We focus on the problem of power-optimal broadcast, for which it is well known that the broadcast nature of the radio transmission ...

Keywords: broadcast algorithms, distributed algorithms, energy efficiency, minimum-energy networks, wireless ad hoc networks

19 Internet intrusions: global characteristics and prevalence
Vinod Yegneswaran, Paul Barford, Johannes Ullrich
June 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 1
Publisher: ACM
Full text available: pdf(699.44 KB) Additional Information: full citation, abstract, references, cited by, index terms

Network intrusions have been a fact of life in the Internet for many years. However, as is the case with many other types of Internet-wide phenomena, gaining insight into the *global* characteristics of intrusions is challenging. In this paper we ...

Keywords: internet performance and monitoring, network security, wide area measurement

20 An on-demand secure routing protocol resilient to byzantine failures
Baruch Awerbuch, David Holmer, Cristina Nita-Rotaru, Herbert Rubens
September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless security
Publisher: ACM
Full text available: pdf(233.97 KB) Additional Information: full citation, abstract, references, cited by, index terms

An ad hoc wireless network is an autonomous self-organizing system ofmobile nodes connected by wireless links where nodes not in directrange can communicate via intermediate nodes. A common technique usedin routing protocols for ad hoc wireless networks ...

Keywords: ad hoc wireless networks, byzantine failures, on-demand routing, security

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21 A knowledge plane for the internet

David D. Clark, Craig Partridge, J. Christopher Ramming, John T. Wroclawski
August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: 📄 pdf(106.91 KB)

We propose a new objective for network research: to build a fundamentally different sort of network that can assemble itself given high level instructions, reassemble itself as requirements change, automatically discover when something goes wrong, and ...

Keywords: cognition, knowledge plane, network applications, network configuration

22 Trajectory sampling for direct traffic observation

N. G. Duffield, Matthias Grossglauser
June 2001 IEEE/ACM Transactions on Networking (TON),   Volume 9 Issue 3
Publisher: IEEE Press

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: 📄 pdf(251.55 KB)

Traffic measurement is a critical component for the control and engineering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets ...

Keywords: Hash functions, Internet traffic measurement, packet sampling, traffic engineering

23 Towards an accurate AS-level traceroute tool
Zhuoqing Morley Mao, Jennifer Rexford, Jia Wang, Randy H. Katz
August 2003 SIGCOMM '03: Proceedings of the 2003 conference on
            Applications, technologies, architectures, and protocols for
            computer communications
Publisher: ACM

Full text available: pdf(176.89 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Traceroute is widely used to detect routing problems, characterize end-to-end paths, and discover the Internet topology. Providing an accurate list of the Autonomous Systems (ASes) along the forwarding path would make traceroute even more valuable to ...

Keywords: AS-level path, border gateway protocol, internet topology, network measurements

24 Internet intrusions: global characteristics and prevalence
Vinod Yegneswaran, Paul Barford, Johannes Ullrich
June 2003 SIGMETRICS '03: Proceedings of the 2003 ACM SIGMETRICS
            international conference on Measurement and modeling of
            computer systems
Publisher: ACM

Full text available: pdf(699.44 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Network intrusions have been a fact of life in the Internet for many years. However, as is the case with many other types of Internet-wide phenomena, gaining insight into the *global* characteristics of intrusions is challenging. In this paper we ...

Keywords: internet performance and monitoring, network security, wide area measurement

25 Best-path vs. multi-path overlay routing
David G. Andersen, Alex C. Snoeren, Hari Balakrishnan
October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on
            Internet measurement
Publisher: ACM

Full text available: pdf(142.64 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Time-varying congestion on Internet paths and failures due to software, hardware, and configuration errors often disrupt packet delivery on the Internet.Many aproaches to avoiding these problems use multiple paths between two network locations. These ...

Keywords: measurement, multi-path routing, networking, overlay networks

26
Policies for sharing distributed probabilistic beliefs

Christopher Leckie, Ramamohanarao Kotagiri
February 2003 ACSC '03: Proceedings of the 26th Australasian
　　　　　　computer science conference - Volume 16, Volume 16
Publisher: Australian Computer Society, Inc.

Full text available: pdf(81.53 KB)　Additional Information: full citation, abstract,
　　　　　　　　　　　　　　　　　　　　　　　references, index terms

In this paper, we present several general policies for deciding when to
share probabilistic beliefs between agents for distributed monitoring. In
order to evaluate these policies, we have formulated an application in
network intrusion detection as a ...

Keywords: multi-agent systems, network intrusion detection

27 Incentive-based modeling and inference of attacker intent, objectives,
and strategies
Peng Liu, Wanyu Zang
October 2003 CCS '03: Proceedings of the 10th ACM conference on
　　　　　　Computer and communications security
Publisher: ACM

　　　　　　　　　　　　　　Additional Information: full citation, abstract,
Full text available: pdf(332.06 KB)　　　　　　references, cited by, index
　　　　　　　　　　　　　　　　　　　　　　terms

Although the ability to model and infer Attacker Intent, Objectives and
Strategies (AIOS) may dramatically advance the literature of risk
assessment, harm prediction, and predictive or proactive cyber defense,
existing AIOS inference techniques are ad ...

Keywords: attack prediction, computer security, game theory

28 Sensor-based intrusion detection for intra-domain distance-vector
routing
Vishal Mittal, Giovanni Vigna
November 2002 CCS '02: Proceedings of the 9th ACM conference on
　　　　　　Computer and communications security
Publisher: ACM

Full text available: pdf(267.99 KB)　Additional Information: full citation, abstract,
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Detection of routing-based attacks is difficult because malicious routing
behavior can be identified only in specific network locations. In addition,
the configuration of the signatures used by intrusion detection sensors is
a time-consuming and error-prone ...

Keywords: intrusion detection, network topology, routing security

29 Towards NIC-based intrusion detection
M. Otey, S. Parthasarathy, A. Ghoting, G. Li, S. Narravula, D. Panda
August 2003 KDD '03: Proceedings of the ninth ACM SIGKDD international
　　　　　　conference on Knowledge discovery and data mining
Publisher: ACM

Full text available: pdf(103.59 KB)　Additional Information: full citation, abstract,
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We present and evaluate a NIC-based network intrusion detection system. Intrusion detection at the NIC makes the system potentially tamper-proof and is naturally extensible to work in a distributed setting. Simple anomaly detection and signature detection ...

Keywords: NICs, data mining, network interface cards, network intrusion detection, network security

30　Using signal processing to analyze wireless data traffic

Craig Partridge, David Cousins, Alden W. Jackson, Rajesh Krishnan, Tushar Saxena, W. Timothy Strayer
September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless security
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(535.20 KB)

Experts have long recognized that theoretically it was possible to perform traffic analysis on encrypted packet streams by analyzing the timing of packet arrivals (or transmissions). We report on experiments to realize this possiblity using basic signal ...

Keywords: encryption, signal processing, traffic analysis, wireless networks

31　Ariadne: a secure on-demand routing protocol for ad hoc networks

Yih-Chun Hu, Adrian Perrig, David B. Johnson
September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(308.15 KB)

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

32　Bitmap algorithms for counting active flows on high speed links

Cristian Estan, George Varghese, Mike Fisk
October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(330.81 KB)

This paper presents a family of bitmap algorithms that address the problem of counting the number of distinct header patterns (flows) seen on a high speed link. Such counting can be used to detect DoS attacks and port scans, and to solve measurement ...

Keywords: counting flows, network traffic measurement

33 Specification-based anomaly detection: a new approach for detecting
    network intrusions
    R. Sekar, A. Gupta, J. Frullo, T. Shanbhag, A. Tiwari, H. Yang, S. Zhou
    November 2002 CCS '02: Proceedings of the 9th ACM conference on
                    Computer and communications security
    Publisher: ACM

    Full text available: pdf(127.45 KB)

    Additional Information: full citation, abstract, references, cited by, index terms

    Unlike signature or misuse based intrusion detection techniques, anomaly
    detection is capable of detecting novel attacks. However, the use of
    anomaly detection in practice is hampered by a high rate of false alarms.
    Specification-based techniques have ...

    Keywords: anomaly detection, intrusion detection, network monitoring

34 IDMaps: a global internet host distance estimation service
    Paul Francis, Sugih Jamin, Cheng Jin, Yixin Jin, Danny Raz, Yuval Shavitt,
    Lixia Zhang
    October 2001 IEEE/ACM Transactions on Networking (TON),   Volume 9
                    Issue 5
    Publisher: IEEE Press

    Full text available: pdf(267.64 KB)

    Additional Information: full citation, abstract, references, cited by, index terms

    There is an increasing need to quickly and efficiently learn network
    distances, in terms of metrics such as latency or bandwidth, between
    Internet hosts. For example, Internet content providers often place data
    and server mirrors throughout the Internet ...

    Keywords: Distributed algorithms, modeling, network service, scalability

35 Balancing cooperation and risk in intrusion detection
    Deborah Frincke
    February 2000 ACM Transactions on Information and System Security
                    (TISSEC),   Volume 3 Issue 1
    Publisher: ACM

    Full text available: pdf(236.44 KB)

    Additional Information: full citation, abstract, references, cited by, index terms

    Early systems for networked intrusion detection (or, more generally,
    intrusion or misuse management) required either a centralized
    architecture or a centralized decision-making point, even when the data
    gathering was distributed. More recently, researchers ...

    Keywords: access control models, authorization mechanisms,
    collaborative systems

36 The case for TCP/IP puzzles
Wu-chang Feng
October 2003 ACM SIGCOMM Computer Communication Review, Volume
                    33 Issue 4
Publisher: ACM

Full text available: pdf(256.51 KB)   Additional Information: full citation, abstract,
                                                          references, cited by

   Since the Morris worm was unleashed in 1988, distributed denial-of-
   service (DDoS) attacks via worms and viruses have continued to
   periodically disrupt the Internet. Client puzzles have been proposed as
   one mechanism for protecting protocols against denial ...

37 Dynamic behavior of slowly-responsive congestion control algorithms
Deepak Bansal, Hari Balakrishnan, Sally Floyd, Scott Shenker
October 2001 ACM SIGCOMM Computer Communication Review, Volume
                    31 Issue 4
Publisher: ACM

                              Additional Information: full citation, abstract,
Full text available: pdf(249.78 KB)   references, cited by, index
                                                          terms

   The recently developed notion of *TCP-compatibility* has led to a number
   of proposals for alternative congestion control algorithms whose long-
   term throughput as a function of a steady-state loss rate is similar to that
   of TCP. Motivated by the ...

38 TCP westwood: Bandwidth estimation for enhanced transport over
wireless links
Saverio Mascolo, Claudio Casetti, Mario Gerla, M. Y. Sanadidi, Ren Wang
July 2001 MobiCom '01: Proceedings of the 7th annual international
              conference on Mobile computing and networking
Publisher: ACM

                              Additional Information: full citation, abstract,
Full text available: pdf(344.76 KB)   references, cited by, index
                                                          terms

   TCP Westwood (TCPW) is a sender-side modification of the TCP
   congestion window algorithm that improves upon the performance of TCP
   Reno in wired as well as wireless networks. The improvement is most
   significant in wireless networks with lossy links, ...

39 A framework for constructing features and models for intrusion
detection systems
Wenke Lee, Salvatore J. Stolfo
November 2000 ACM Transactions on Information and System Security
                 (TISSEC), Volume 3 Issue 4
Publisher: ACM

                              Additional Information: full citation, abstract,
Full text available: pdf(187.03 KB)   references, cited by, index
                                                          terms, review

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, ...

Keywords: data mining, feature construction, intrusion detection

40 Feedback based routing
Dapeng Zhu, Mark Gritter, David R. Cheriton
January 2003 ACM SIGCOMM Computer Communication Review, Volume
        33 Issue 1
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(323.07 KB)   references, cited by, index
                                                           terms

In this paper, we describe the problems that affect availability in BGP, such as vulnerability to attacks, slow convergence time, and lack of scalability. These problems arise from the basic assumption of BGP: every router has to cooperate to make routing ...

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41 **Enhancement of a WLAN-based internet service in Korea**
❖ Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan
Lee, Hanwook Jung
September 2003 WMASH '03: Proceedings of the 1st ACM international
workshop on Wireless mobile applications and services on
WLAN hotspots
Publisher: ACM

Full text available: 🗋 pdf(774.23 KB) Additional Information: full citation, abstract, references,
index terms

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea
Telecom (KT), the biggest telecommunication and Internet service
company in Korea, has been operational since early 2002. As the numbers
of subscribers and deployed access points (APs) ...

Keywords: IEEE 802.11, LAN, hotspot service, wireless internet service
provider (WISP)

42 **Securing IPv6 neighbor and router discovery**
❖ Jari Arkko, Tuomas Aura, James Kempf, Vesa-Matti Mäntylä, Pekka Nikander,
Michael Roe
September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless
security
Publisher: ACM

Full text available: 🗋 pdf(113.58 KB) Additional Information: full citation, abstract, references,
cited by, index terms

When IPv6 Neighbor and Router Discovery functions were defined, it was
assumed that the local link would consist of mutually trusting nodes.
However, the recent developments in public wireless networks, such as
WLANs, have radically changed the situation. ...

Keywords: autoconfiguration, detection, duplicate address, identity-based
cryptosystems, neighbor discovery, router discovery

43 **TCP/IP and security software applications**

William Natale
April 2001 Proceedings of the seventh annual consortium for computing in
          small colleges central plains conference on The journal of
          computing in small colleges
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(67.85 KB)   Additional Information: full citation, abstract, references,
                                                               index terms

The TCP/IP protocol suite refers to a family of protocols. The designers of
TCP/IP divided the job of a full protocol suite into a number of tasks
delineated as layers (show in Figure 1 below). Each layer has a different,
but specific task in communication. ...

44 Access for sale: a new class of worm
    Stuart E. Schechter, Michael D. Smith
    October 2003 WORM '03: Proceedings of the 2003 ACM workshop on Rapid
              malcode
    Publisher: ACM

Full text available: pdf(95.11 KB)   Additional Information: full citation, abstract, references,
                                                               cited by, index terms

The damage inflicted by viruses and worms has been limited by the risks
that come with the more lucrative payloads. The problem facing authors of
self-reproducing malware is that monetizing each intrusion requires the
author to risk communication with ...

Keywords: cryptography, economics, incentives, security, threat
modelling, virus, worm

45 Port Scans and Ping Sweeps Explained
    Lawrence Teo
    November 2000 Linux Journal,   Volume 2000 Issue 80es
    Publisher: Specialized Systems Consultants, Inc.

Full text available: html(9.62 KB)   Additional Information: full citation, abstract, references,
                                                               index terms

Lawrence Teo explains two common network probes and what can be done
to detect them.

46 QoS's downfall: at the bottom, or not at all!
    Jon Crowcroft, Steven Hand, Richard Mortier, Timothy Roscoe, Andrew
    Warfield
    August 2003 RIPQoS '03: Proceedings of the ACM SIGCOMM workshop on
              Revisiting IP QoS: What have we learned, why do we care?
    Publisher: ACM

Full text available: pdf(161.07 KB)   Additional Information: full citation, abstract, references,
                                                               cited by

Quality of Service (QoS) has been touted as a technological requirement
for many different networks at many different times. However, very few (if
any) schemes for providing it have ever been successful, despite a huge
amount of research in the area ...

47 UNICORN: misuse detection for UNICOS
Gary G. Christoph, Kathleen A. Jackson, Michael C. Neuman, Christine L. B.
Siciliano, Dennis D. Simmonds, Cathy A. Stallings, Joseph L. Thompson
December 1995 Supercomputing '95: Proceedings of the 1995
                ACM/ IEEE conference on Supercomputing (CDROM) -
                Volume 00, Volume 00
Publisher: ACM

Full text available: html(43.88 KB)　Additional Information: full citation, abstract, references,
                                         cited by, index terms

An effective method for detecting computer misuse is the automatic
auditing and analysis of on-line user activity. This activity is reflected in
the system audit record, by changes in the vulnerability posture of the
system configuration, and in other ...

Keywords: anomaly detection, computer misuse, auditing, UNICOS,
computer security, hacking, intrusion detection, security logs

48 TCP/IP and security software applications
William Natale
April 2001 Proceedings of the twelfth annual CCSC South Central conference
           on The journal of computing in small colleges
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(67.85 KB)　Additional Information: full citation, abstract, references,
                                        index terms

The TCP/IP protocol suite refers to a family of protocols. The designers of
TCP/IP divided the job of a full protocol suite into a number of tasks
delineated as layers (show in Figure 1 below). Each layer has a different,
but specific task in communication. ...

49 Internet indirection infrastructure
Ion Stoica, Daniel Adkins, Shelley Zhuang, Scott Shenker, Sonesh Surana
October 2002 ACM SIGCOMM Computer Communication Review, Volume
             32 Issue 4
Publisher: ACM

Full text available: pdf(303.69 KB)　Additional Information: full citation, abstract, references,
                                         cited by, index terms

Attempts to generalize the Internet's point-to-point communication
abstraction to provide services like multicast, anycast, and mobility have
faced challenging technical problems and deployment barriers. To ease the
deployment of such services, this ...

Keywords: abstraction, architecture, indirection, internet, scalable

50 TCP/IP and security software applications
William Natale
March 2001 Journal of Computing Sciences in Colleges, Volume 16 Issue 3
Publisher: Consortium for Computing Sciences in Colleges
                        Additional Information:

Full text available: pdf(67.85 KB)   full citation, abstract, references, index terms

The TCP/IP protocol suite refers to a family of protocols. The designers of TCP/IP divided the job of a full protocol suite into a number of tasks delineated as layers (show in Figure 1 below). Each layer has a different, but specific task in communication. ...

51 Hop-count filtering: an effective defense against spoofed DDoS traffic
Cheng Jin, Haining Wang, Kang G. Shin
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM

Full text available: pdf(213.86 KB) Additional Information: full citation, abstract, references, cited by, index terms

IP spoofing has been exploited by Distributed Denial of Service (DDoS) attacks to (1) conceal flooding sources and localities in flooding traffic, and (2) coax legitimate hosts into becoming reflectors, redirecting and amplifying flooding traffic. Thus, ...

Keywords: DDoS defense, TTL, host-based, networking, security

52 Abstraction-based intrusion detection in distributed environments
Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang
November 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 4
Publisher: ACM

Full text available: pdf(590.61 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection

53 Characterizing large DNS traces using graphs
Charles D. Cranor, Emden Gansner, Balachander Krishnamurthy, Oliver Spatscheck
November 2001 IMW '01: Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement
Publisher: ACM

Full text available: pdf(2.62 MB) Additional Information: full citation, abstract, references, cited by, index terms

The increasing deployment of overlay networks that rely on DNS tricks has led to added interest in examining DNS traffic. In this paper we report on a characterization of DNS traffic gathered over a period of several weeks at Internet Gateway Routers ...

54 Internet indirection infrastructure

Ion Stoica, Daniel Adkins, Shelley Zhuang, Scott Shenker, Sonesh Surana
August 2002 SIGCOMM '02: Proceedings of the 2002 conference on
          Applications, technologies, architectures, and protocols for
          computer communications
Publisher: ACM

Full text available: pdf(303.69 KB)   Additional Information: full citation, abstract, references, cited by, index terms

> Attempts to generalize the Internet's point-to-point communication abstraction to provide services like multicast, anycast, and mobility have faced challenging technical problems and deployment barriers. To ease the deployment of such services, this ...

> Keywords: abstraction, architecture, indirection, internet, scalable

55 Dynamic behavior of slowly-responsive congestion control algorithms

Deepak Bansal, Hari Balakrishnan, Sally Floyd, Scott Shenker
August 2001 SIGCOMM '01: Proceedings of the 2001 conference on
          Applications, technologies, architectures, and protocols for
          computer communications
Publisher: ACM

Full text available: pdf(249.78 KB)   Additional Information: full citation, abstract, references, cited by, index terms

> The recently developed notion of *TCP-compatibility* has led to a number of proposals for alternative congestion control algorithms whose long-term throughput as a function of a steady-state loss rate is similar to that of TCP. Motivated by the ...

56 The case for TCP/IP puzzles

Wu-chang Feng
August 2003 FDNA '03: Proceedings of the ACM SIGCOMM workshop on
          Future directions in network architecture
Publisher: ACM

Full text available: pdf(256.51 KB)   Additional Information: full citation, abstract, references, cited by

> Since the Morris worm was unleashed in 1988, distributed denial-of-service (DDoS) attacks via worms and viruses have continued to periodically disrupt the Internet. Client puzzles have been proposed as one mechanism for protecting protocols against denial ...

57 A remotely accessible networking laboratory

Joseph D. Sloan
December 2002 Journal of Computing Sciences in Colleges, Volume 18 Issue 2
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(39.80 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper describes Lander University's efforts to create a remotely accessible networking and telecommunications laboratory. By supplying remote access, the laboratory provides an authentic laboratory experience, gives greater access to equipment, ...

58 The discipline of Internet forensics

Hal Berghel
August 2003 Communications of the ACM, Volume 46 Issue 8
Publisher: ACM

Additional Information: full citation,
abstract,
cited by,
index terms

Full text available: pdf(166.59 KB) html(25.47 KB)

A well-defined field of study and practice has evolved as a result of network hacker activity.

59 The last mile: making the broadband connection

Dennis Fowler
March 2000 netWorker, Volume 4 Issue 1
Publisher: ACM

Full text available: pdf(915.54 KB) html(24.17 KB) Additional Information: full citation,
index terms

60 Understanding BGP misconfiguration

Ratul Mahajan, David Wetherall, Tom Anderson
August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(312.33 KB) Additional Information: full citation, abstract, references,
cited by, index terms

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, ...

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61　**Measuring ISP topologies with rocketfuel**
◈ Neil Spring, Ratul Mahajan, David Wetherall
August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: 📄 pdf(1.21 MB)　Additional Information: full citation, abstract, references, cited by, index terms

To date, realistic ISP topologies have not been accessible to the research community, leaving work that depends on topology on an uncertain footing. In this paper, we present new Internet mapping techniques that have enabled us to directly measure router-level ...

62　**A firewall configuration strategy for the protection of computer networked labs in a college setting**
Dennis Guster, Charles Hall
October 2001 Journal of Computing Sciences in Colleges,　Volume 17 Issue 1
Publisher: Consortium for Computing Sciences in Colleges

Full text available: 📄 pdf(32.54 KB)　Additional Information: full citation, references, cited by, index terms

63　**Testing and evaluating computer intrusion detection systems**
◈ Robert Durst, Terrence Champion, Brian Witten, Eric Miller, Luigi Spagnuolo
July 1999 Communications of the ACM,　Volume 42 Issue 7
Publisher: ACM

Additional Information: full citation, cited by, index terms, review

Full text available: 📄 pdf(220.41 KB) 📄 html(35.64 KB)

64 Censorship and the Internet: a Singapore perspective
Peng Hwa Ang, Berlinda Nadarajan
June 1996 Communications of the ACM,　Volume 39 Issue 6
Publisher: ACM

Full text available: pdf(598.12 KB)　Additional Information: full citation, references, cited by, index terms, review

65 Understanding BGP misconfiguration
Ratul Mahajan, David Wetherall, Tom Anderson
October 2002 ACM SIGCOMM Computer Communication Review,　Volume 32 Issue 4
Publisher: ACM

Full text available: pdf(312.33 KB)　Additional Information: full citation, abstract, references, cited by, index terms

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, ...

66 Internet security: firewalls and beyond
Rolf Oppliger
May 1997 Communications of the ACM,　Volume 40 Issue 5
Publisher: ACM

Full text available: pdf(339.15 KB)　Additional Information: full citation, references, cited by, index terms, review

67 Paranoid penguin: stealthful sniffing, intrusion detection and logging
Mick Bauer
October 2002 Linux Journal,　Volume 2002 Issue 102
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(17.98 KB) Additional Information: full citation, index terms

68 Measuring ISP topologies with rocketfuel
Neil Spring, Ratul Mahajan, David Wetherall
October 2002 ACM SIGCOMM Computer Communication Review,　Volume 32 Issue 4
Publisher: ACM

Full text available: pdf(1.21 MB)　Additional Information: full citation, abstract, references, cited by, index terms

To date, realistic ISP topologies have not been accessible to the research community, leaving work that depends on topology on an uncertain footing. In this paper, we present new Internet mapping techniques that

have enabled us to directly measure router-level ...

69 A framework for scalable global IP-anycast (GIA)
    Dina Katabi, John Wroclawski
    August 2000 SIGCOMM '00: Proceedings of the conference on Applications,
              Technologies, Architectures, and Protocols for Computer
              Communication
    Publisher: ACM

                                    Additional Information: full citation, abstract,
    Full text available: pdf(306.33 KB)   references, cited by, index
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    This paper proposes GIA, a scalable architecture for global IP-anycast.
    Existing designs for providing IP-anycast must either globally distribute
    routes to individual anycast groups, or confine each anycast group to a
    pre-configured topological region. ...

    Keywords: Internet, anycast, architecture, routing, scalable

70 IP lookups using multiway and multicolumn search
    Butler Lampson, Venkatachary Srinivasan, George Varghese
    June 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue
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    Publisher: IEEE Press

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71 A framework for scalable global IP-anycast (GIA)
    Dina Katabi, John Wroclawski
    October 2000 ACM SIGCOMM Computer Communication Review, Volume
              30 Issue 4
    Publisher: ACM

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    This paper proposes GIA, a scalable architecture for global IP-anycast.
    Existing designs for providing IP-anycast must either globally distribute
    routes to individual anycast groups, or confine each anycast group to a
    pre-configured topological region. ...

    Keywords: Internet, anycast, architecture, routing, scalable

72 Terrain database interoperability issues in training with distributed
    interactive simulation
    Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis
    July 1997 ACM Transactions on Modeling and Computer Simulation
              (TOMACS), Volume 7 Issue 3
    Publisher: ACM

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In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, ...

Keywords: distributed interactive simulation, terrain databases

73 Monitoring and early warning for internet worms
Cliff Changchun Zou, Lixin Gao, Weibo Gong, Don Towsley
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(227.83 KB)

After the Code Red incident in 2001 and the SQL Slammer in January 2003, it is clear that a simple self-propagating worm can quickly spread across the Internet, infects most vulnerable computers before people can take effective countermeasures. The fast ...

Keywords: early detection, monitoring, worm propagation

74 A taxonomy of computer worms
Nicholas Weaver, Vern Paxson, Stuart Staniford, Robert Cunningham
October 2003 WORM '03: Proceedings of the 2003 ACM workshop on Rapid malcode
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(136.01 KB)

To understand the threat posed by computer worms, it is necessary to understand the classes of worms, the attackers who may employ them, and the potential payloads. This paper describes a preliminary taxonomy based on worm target discovery and selection ...

Keywords: attackers, computer worms, mobile malicious code, motivation, taxonomy

75 ACM SIGMOBILE Mobile Computing and Communications Review: Volume 7 Issue 3
July 2003 issue   Volume 7 Issue 3
Publisher: ACM
Additional Information: full citation

76 Risks to the public in computers and related systems
Peter G. Neumann

November 2003 ACM SIGSOFT Software Engineering Notes, Volume 28
Issue 6
Publisher: ACM
Full text available: pdf(124.63 KB) Additional Information: full citation

77 Zero-interaction authentication

Mark D. Corner, Brian D. Noble
September 2002 MobiCom '02: Proceedings of the 8th annual international
conference on Mobile computing and networking
Publisher: ACM

Additional Information: full citation, abstract,
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Laptops are vulnerable to theft, greatly increasing the likelihood of
exposing sensitive files. Unfortunately, storing data in a cryptographic file
system does not fully address this problem. Such systems ask the user to
imbue them with long-term authority ...

Keywords: cryptographic file systems, mobile computing, stackable file
systems, transient authentication

78 Application specific architectures: a recipe for fast, flexible and power efficient designs

Chris Weaver, Rajeev Krishna, Lisa Wu, Todd Austin
November 2001 CASES '01: Proceedings of the 2001 international
conference on Compilers, architecture, and synthesis for
embedded systems
Publisher: ACM

Full text available: pdf(220.79 KB) Additional Information: full citation, abstract,
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optimization efforts that have resulted in an impressive doubling of
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79 ACM SIGCOMM Computer Communication Review: Volume 33 Issue 2

April 2003 issue   Volume 33 Issue 2
Publisher: ACM
Additional Information: full citation

80 Code red worm propagation modeling and analysis

Cliff Changchun Zou, Weibo Gong, Don Towsley
November 2002 CCS '02: Proceedings of the 9th ACM conference on
Computer and communications security
Publisher: ACM

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The Code Red worm incident of July 2001 has stimulated activities to model and analyze Internet worm propagation. In this paper we provide a careful analysis of Code Red propagation by accounting for two factors: one is the dynamic countermeasures taken ...

Keywords: epidemic model, internet worm modeling, two-factor worm model

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    Russell M. Taylor, II
    August 1996 SIGGRAPH '96: Proceedings of the 23rd annual conference on
                Computer graphics and interactive techniques
    Publisher: ACM
    Full text available: 📄 pdf(199.79 KB)   Additional Information: full citation, references, cited
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    Keywords: force feedback, friction model, haptic, interactive graphics,
    intermediate surface representation, scientific visualization, virtual
    environment, virtual world

82 Testing Intrusion detection systems: a critique of the 1998 and 1999
    DARPA intrusion detection system evaluations as performed by
    Lincoln Laboratory
    November 2000 ACM Transactions on Information and System Security
                (TISSEC), Volume 3 Issue 4
    Publisher: ACM
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    In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a
    comparative evaluation of intrusion detection systems (IDSs) developed
    under DARPA funding. While this evaluation represents a significant and
    monumental undertaking, there are a number ...

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